

Applicants: Gloria C. Li, et al.
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Listing of claims:

1. (Currently Amended) A method for increasing the susceptibility of a cell to a DNA-damaging agent, comprising introducing into the cell *in vitro* an antisense ~~oligonucleotide~~ nucleic acid that specifically hybridizes to a nucleic acid encoding a human DNA-dependent protein kinase subunit so as to prevent expression of the human DNA-dependent protein kinase subunit wherein (a) the antisense ~~oligonucleotide~~ nucleic acid is in an amount sufficient to increase the sensitivity of the cell to heat, chemical, or radiation-induced DNA damage, (b) the antisense oligonucleotide is enclosed in a liposome prior to introduction into the cell and (c) the antisense ~~oligonucleotide~~ nucleic acid has the sequence of a human Ku70 cDNA in the antisense orientation or a human Ku80 cDNA in the antisense orientation.
- 2-14. (Canceled)
15. (Currently Amended) An antisense ~~oligonucleotide~~ nucleic acid which has the sequence of a human Ku70 cDNA in the antisense orientation and which specifically hybridizes to a nucleic acid encoding a human DNA-dependent protein kinase subunit, wherein the human DNA-dependent protein kinase subunit is Ku70, so as to prevent expression of the human DNA-dependent protein kinase subunit.
16. (Currently Amended) The antisense ~~oligonucleotide~~ nucleic acid of claim 15 linked to a ribozyme.

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17. (Canceled)

18. (Currently Amended) The antisense ~~oligonucleotide~~ nucleic acid of claim 15 operably linked to a regulatory element.

19. (Currently Amended) The antisense ~~oligonucleotide~~ nucleic acid of claim 18, wherein the regulatory element is an inducible promoter.

20. (Currently Amended) The antisense ~~oligonucleotide~~ nucleic acid of claim 18, wherein the regulatory element is a heat shock promoter.

21. (Currently Amended) An expression vector adapted for the expression of the antisense ~~oligonucleotide~~ nucleic acid of claim 15.

22. (Currently Amended) An expression vector adapted for the expression of the antisense ~~oligonucleotide~~ nucleic acid of claim 16.

23-26. (Canceled)